(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 24 February 2005 (24.02.2005)

PCT

(10) International Publication Number WO 2005/017193 A1

(51) International Patent Classification⁷: G01N 33/50

C12Q 1/68,

(21) International Application Number:

PCT/CN2003/000722

(22) International Filing Date: 27 August 2003 (27.08.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

03153279.9

13 August 2003 (13.08.2003)

- (71) Applicants (for all designated States except US): TS-INGHUA UNIVERSITY [CN/CN]; Tsinghua University, Haidian District, Beijing 100084 (CN). CAPITAL BIOCHIP COMPANY, LTD. [CN/CN]; Jia No2, Qinghua West Road, Haidian District, Beijing 100084 (CN).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): WANG, Dong [CN/CN]; Tsinghua University, Haidian District, Beijing 100084 (CN). LI, Gang [CN/CN]; Tsinghua University, Haidian District, Beijing 100084 (CN). MA, Xuemei [CN/CN]; Tsinghua University, Haidian District, Beijing 100084 (CN). LIU, Chengxun [CN/CN]; Tsinghua University, Haidian District, Beijing 100084 (CN). ZHOU,

Yuxiang [CN/CN]; Tsinghua University, Haidian District, Beijing 100084 (CN). CHENG, Jing [CN/CN]; Tsinghua University, Haidian District, Beijing 100084 (CN).

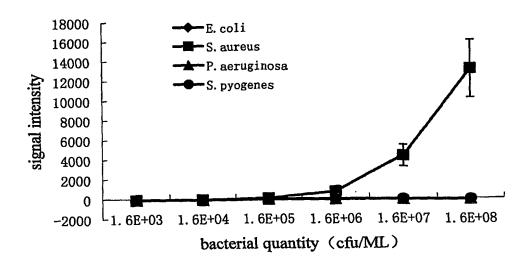
- (74) Agent: JEEKAI & PARTNERS; Suite 602, Jinyu Tower, A129 West Xuan Wu Men Street, Xicheng District, Beijing 100031 (CN).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A RAPID METHOD TO DETECT NUCLEIC ACID MOLECULES



(57) Abstract: This invention relates to the field of detecting nucleic acid molecules using microarrays. The invention provides a method for detecting a target nucleic acid molecule in a biological sample by hybridizing a cell lysate directly probes immobilized on microarrays without any nucleic acid purification.